

A horizontal row of twelve empty rectangular boxes, intended for children to draw or write in.

□ □ □ □ □ □

1

Universal Approximation Theorem □ Nash Embedding Theorems □ word-embedding vector space

A horizontal row of twelve empty square boxes, intended for children to write their names in, likely as part of a classroom activity.

图灵测试 AlphaGo 大赛数据集

AlphaGo Zero և superhuman առաջ AlphaGo առաջ
AlphaZero և MuZero առաջատար առաջական մասնակիությունները
առաջական մասնակիությունները

SAE level 4

无人驾驶汽车已经准备就绪 Alphabet/Waymo 无人驾驶汽车 SAE level 4 无人驾驶汽车 SAE level 4

Alphabet/Waymo

Reward Is Enough

Reward Is Enough

SAE level 4

Universal Approximation Theorem

Nash Embedding Theorems

Word-embedding Vector Space

Universal Approximation Theorem

SAE level 4

Universal Approximation Theorem

Nash Embedding Theorems

Word-embedding Vector Space

Universal Approximation Theorem

SAE level 4

Universal Approximation Theorem

Nash Embedding Theorems

Word-embedding Vector Space

Universal Approximation Theorem

SAE level 4

Universal Approximation Theorem

逻辑实证主义 logical positivism \ logical empiricism \ Positivism \ empiricism

Category Theory critique

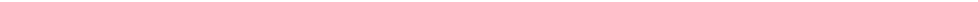
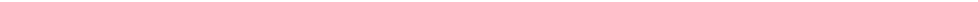
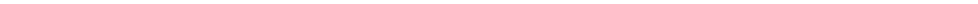
批评 critique Word-embedding Vector Space

Peano axioms

100% 100%

1 AlphaGo არის ერთ-ერთი უძლიერი ალბორისტური კომპიუტერის სახე.

Deepmind 用 AlphaGo Zero 学会了围棋，比 AlphaGo 更厉害

3 



4 Axiom of Choice

□ 1) □ 2) □ 3) □ 4) □ 1) □ 2) □

Human Brain Project “大脑” Brain Initiative
人类脑计划

Leukotomy 亂世のヒーローとアーティスト selfish gene 亂世のヒーロー Technological Singularity・AlphaGo Zero・superhuman performance・potentially a meta-solution to any problem・Reward Is Enough・乱世のヒーローとアーティスト liberal arts

Solyndra សោរជាន់ក្រុងការបង្កើតរួមចិត្ត arXiv សោរជាន់ក្រុងការបង្កើតរួមចិត្ត arXiv សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

សោរជាន់ក្រុង

សោរជាន់ក្រុងការបង្កើតរួមចិត្ត A>B>C>D>E សោរជាន់ក្រុង

A. សោរជាន់ក្រុង

1. សោរជាន់ក្រុងការបង្កើតរួមចិត្តក្នុងការបង្កើតរួមចិត្ត

2. សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

3. និង Chaitin's constant សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

4. សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

5. និង 1 - 4 សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

B. សោរជាន់ក្រុង

6. សោរជាន់ក្រុងការបង្កើតរួមចិត្តទៅក្នុង relevance theory សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

7. សោរជាន់ក្រុងការបង្កើតរួមចិត្តទៅក្នុងការបង្កើតរួមចិត្តទៅក្នុងការបង្កើតរួមចិត្ត

8. Grigori Perelman ឬ Poincaré conjecture សោរជាន់ក្រុងការបង្កើតរួមចិត្ត សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

9. Demis Hassabis ឬ AlphaGo សោរជាន់ក្រុង intuition សោរជាន់ក្រុង intuition និង Demis Hassabis ឬ AlphaGo សោរជាន់ក្រុង intuition សោរជាន់ក្រុង AlphaGo សោរជាន់ក្រុង a meta-solution to any problem

10. និង AlphaGo សោរជាន់ក្រុង Nature សោរជាន់ក្រុង superhuman performance សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

C. សោរជាន់ក្រុង

11. សោរជាន់ក្រុងការបង្កើតរួមចិត្តទៅក្នុងការបង្កើតរួមចិត្ត form សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

12. សោរជាន់ក្រុង motif សោរជាន់ក្រុងការបង្កើតរួមចិត្តទៅក្នុងការបង្កើតរួមចិត្ត

13. សោរជាន់ក្រុង“truth” សោរជាន់ក្រុង truth សោរជាន់ក្រុងការបង្កើតរួមចិត្ត

13. ပုဂ္ဂန်များ

14. အကြောင်းအရာ The Selfish Gene၊ The Immortal Gene

15. အကြောင်းအရာ Freeman Dyson ၏ Birds and Frogs ၏ birds ၏ frogs အကြောင်းအရာ

16. အကြောင်းအရာ Austrian School of Economics

17. အကြောင်းအရာ selfish gene

D. အကြောင်းအရာ:

18. အကြောင်းအရာ

19. အကြောင်းအရာ

20. အကြောင်းအရာ “Turing” အကြောင်းအရာ “Turing Machine” အကြောင်းအရာ

21. အကြောင်းအရာ Turing Machine ၏ deterministic, probabilistic, etc. အကြောင်းအရာ

22. အကြောင်းအရာ Turing Test ၏ SAE level 4 ၏ level 5 အကြောင်းအရာ

23. အကြောင်းအရာ word-embedding vector space ၏ encoder-decoder, attention, transformer, BERT အကြောင်းအရာ

24. အကြောင်းအရာ deep-learning ၏ deep residual networks ၏ generative adversarial networks, etc. အကြောင်းအရာ

25. အကြောင်းအရာ Universal Approximation Theorem ၏ overfitting ၏ underfitting ၏ chaos phenomena အကြောင်းအရာ

26. အကြောင်းအရာ Reward Is Enough ၏ reward

27. အကြောင်းအရာ selfish gene အကြောင်းအရာ

E. □□□□:

30. reward

□ □ □ □ □ □ □ □ □ □

Freeman Dyson

A decorative horizontal bar consisting of a series of small, evenly spaced rectangular blocks.

□□□□□“□□□□□”□□□□□□□□□□□□□□□□□□

AlphaGo 在《自然》上发表论文，SAE level 5 和 SAE level 4 分别

THE SELFISH GENE

Freeman Dyson
a great bird
frog
bird
frog
frog
bird
frog
bird

Freeman Dyson
a great bird
frog
bird
frog
frog
bird

Freeman Dyson
a great bird
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bird

Freeman Dyson
a great bird
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bird

Freeman Dyson
a great bird
frog
bird
frog
frog
bird

Freeman Dyson

Freeman Dyson

Freeman Dyson
“自然法”
“自然法”
natural law

Freeman Dyson

Freeman Dyson
Freeman Dyson

Freeman Dyson

Deepmind
Reward Is Enough
Reward Is Enough

Deepmind
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Deepmind
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Reward Is Enough
Reward Is Enough

4

A decorative horizontal bar consisting of a series of small, evenly spaced rectangular boxes, likely a separator or a decorative element at the bottom of the page.

metaphysics

A horizontal row of 20 empty rectangular boxes, intended for children to write their names in, likely as part of a classroom activity.

physics
metaphysics
metaphysics
Deepmind
a meta-solution
potentially a meta-solution to any problem

Deepmind は、AI の研究開発を主導する大企業です。

Académie française

ontology metaphysics ontology “ontology” “ontology” ontology • ontology metaphysics ontology • ontology metaphysics ontology

Stanford Encyclopedia of Philosophy (2013) "The word 'metaphysics' is notoriously hard to define." <https://plato.stanford.edu/entries/metaphysics/> Stanford Encyclopedia of Philosophy

Deepmind a meta-solution to any problem Deepmind metaphysics
metaphysics metaphysics metaphysics

metaphysics metaphysics metaphysics

Avi Loeb Avi Loeb

Avi Loeb Scientific American A-B-C-D civilization A civilization

civilization civilization Creator

Civilization civilization civilization civilization civilization Civilization
Creator

civilization civilization Avi Loeb civilization civilization civilization
civilization civilization Avi Loeb civilization civilization civilization
independent of its host star B civilization independent of its host star
when the sun will die

B civilization civilization civilization civilization civilization civilization
civilization

Avi Loeb B civilization B civilization B civilization B civilization
B civilization

Independent of its host star independent of its host star independent of its
host star

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civilization

civilization independent of its host star B civilization B civilization
B

civilization civilization civilization civilization civilization

Avi Loeb civilization civilization Occam's Razor

civilization civilization civilization

civilization

□□□□□

Avi Loeb 阿維·洛布

people people